Supporting information

2 S3 Table. Additional results found in the studies.

(follow-up)	№ of participants (studies)	Anticipated absolute			Certainty
		effects* (95% CI)		Relative effect	of the
		Risk with	Risk with	(95% CI)	evidence
	(studies)	Control	Intervention		(GRADE)
Episodic treatn	nent vs Low-do	ose prophylax	ris		
Change in the					
Haemophilia					
Early	50 (1 RCT)		010 1 1	1 1 '	*
Arthropathy				se prophylaxis:	
Detection with		mean of 1.84. Episodic treatment: mean of			LOW a,b,c
Ultrasound		0.2 (p= 0.2)	57).		LOW ","
(HEAD-US)					
(12 months)					
Episodic treatm	nent vs Interm	ediate-dose p	rophylaxis		
Change in the					
Colorado					
Adult Joint		- Manaa Jal	maan 2017. I	atama diata daga	A000
Assessment	92 (1 DCT)			ntermediate-dose	
Scale	83 (1 RCT)	prophylaxis		0.31. Episodic	VERY
(CAJAS),		treatment: 1	mean 0.63 (p=	U.UU/).	LOW a,b,c
which assess					
joint physical					

examination			
(lower =			
better) (36			
months)			
Pain score			
(Short-form			
McGill Pain		• Manco-Johnson 2017: Intermediate-dose	ФООО
Questionnaire)	83 (1 RCT)	prophylaxis: mean -2.5. Episodic	VERY
(lower =		treatment: mean 2.4. No p-value provided.	LOW a,b,c
better) (36			
months)			
		• Manco-Johnson 2017 reported that the	
		proportions at baseline and at 3 years were:	
		Increased activity: Intermediate-dose	
Change in		prophylaxis 7.1% to 40.5%. Episodic	ФООО
activity level	83 (1 RCT)	treatment: 14.3% to 19.0%.	VERY
(36 months)		o Unrestricted work/school and	LOW a,b,c
		recreational activities: Intermediate-dose	
		prophylaxis: 33.3% to 47.6%. Episodic	
		treatment: 38.1% to 26.2%.	
Healthcare		• Manco-Johnson 2017: HRU in patients	
Resource		with episodic treatment was higher than in	ФООО
Utilization	83 (1 RCT)	those with intermediate-dose prophylaxis:	VERY
(HRU) (36		hematologists (2.43-fold), primary care	LOW a,b,c
months)		physicians (3.17-fold), and nurses (2.2-	

Treatment satisfaction (36 months)	83 (1 RCT)	fold); laboratory utilization (1.79-fold); and joint surgeries (performed in 23.8% vs 9.5% of patients). • Manco-Johnson 2017 reported that the treatment satisfaction at 3 years in patients with intermediate-dose prophylaxis and episodic treatment were: o Treatment somewhat/greatly exceeded their expectations: 42.9% and 26.2%. o Very/extremely satisfied with treatment: 64.3% and 42.9%. o Probably/definitely would continue with their replacement therapies: 66.7% and 47.6%.	⊕○○○ VERY LOW a,b,c
Studies that con	npared two di	fferent prophylactic factors	
Annualized bleeding rate (ABR) (11.5 months)	131 (1 RCT)	• Powell 2012: ABR was higher (worse) in patients with BAY 79-4980 (mean 15.0 SD 14.2) than in those with rFVIII-FS (mean 5.8 SD 6.9). No p-value provided.	⊕○○○ VERY LOW ^{a,b,c}
Annualized joint bleeding rate (AJBR) (11.5 months)	131 (1 RCT)	• Powell 2012: AJBR was higher (worse) in patients with BAY 79-4980 (mean 12.2 SD 14.2) than in those with rFVIII-FS (mean 5.0 SD 6.3). No p-value provided.	⊕○○○ VERY LOW ^{a,b,c}

Adverse			ФООО	
Auveise		• Powell 2012: No patient developed	$\Phi \cup \cup \cup$	
events (11.5	131 (1 RCT)	inhibitors in both groups.	VERY	
months)		minorioto in com groups.	LOW a,b,c	
Studies that ass	Studies that assessed intermediate-dose prophylaxis vs pharmacokinetic prophylaxis			
Annualized				
bleeding rate		• Valentino 2012: Mean ABR in patients	⊕○○○	
(ABR) (12	66 (1 RCT)	with PK-prophylaxis: 1.9. Intermediate-	VERY	
months)		dose prophylaxis: 1.6, p= 0.2588.	LOW a,b,c	
months)				
Quality of life (12 months)	66 (1 RCT)	• Valentino 2012: median score of HRQoL at 1 year in patients in both groups treatment "did not show statistical	⊕○○○ VERY LOW a,b,c	
		differences" (no data provided).		
Advance		• Valentino 2012 reported that no patient developed inhibitors in both groups, and	6000	
Adverse	(((1 DCT)	that the adverse events was similar in	#000	
events	66 (1 RCT)	patients with PK-prophylaxis (mean rate	VERY	
(12 months)		0.089) and in those with intermediate-dose	LOW a,b,c	
		prophylaxis (mean rate 0.356), p> 0.05.		
Studies in whi	ich the group	s received the same weekly doses but with	h different	
frequency (50 IU/kg twice a week, vs 100 IU/kg once a week)				
Annualized		• Valentino 2014: Mean ABR was similar in	-000	
bleeding rate		patients that used 50 IU/kg twice a week:	ФООО	
(ABR) (8	44 (1 RCT)	2.6. In patients that used 100 IU/kg once a	VERY	
months)		week: 4.6, p = 0.217.	LOW a,b,c	

Annualized		• Valentino 2014 Mean AJBR in patients	
isint blooding		that word 50 HI/kg twice a week 1.0 In	ФООО
joint bleeding	44 (1 RCT)	that used 50 IU/kg twice a week: 1.9. In	VERY
rate (8	,	patients that used 100 IU/kg once a week:	o b o
months)		3.6. No p-value provided.	LOW a,b,c

^{*}The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

CI: Confidence interval; eMRI: Extended magnetic resonance imaging; MD: mean difference; IQR: Interquartile range; SD: Standard deviation; HRQoL: Health-related quality of life.

Explanations

- a. We rated down one level for risk of bias.
- b. We rated down two levels for imprecision due to the small number of participants that presented the outcome (less than 200).
- c. We rated down one level for publication bias.